



Model F312

*Industrial Strength, 1" & 2" Disposable Panel Filters
Fiberglass Media*

The **F312** disposable panel filters are designed to withstand the demands of tough industrial and commercial applications. Purolator assures filter durability by utilizing construction features not found in traditional designs.

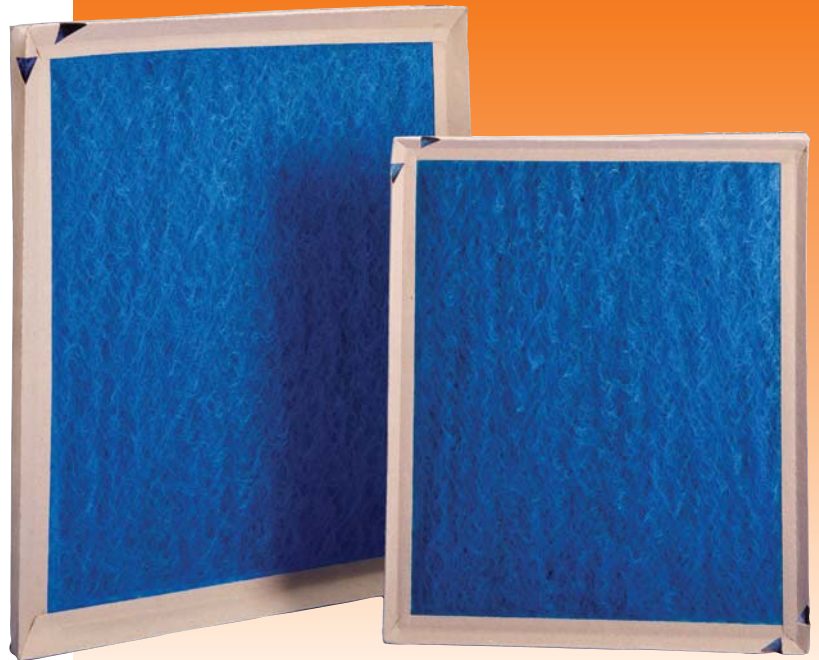
Frame – Purolator **F312** frames are produced using post consumer recycled materials. The unique Monobond pinch frame concept involves a one piece frame sealed to the media under heat and pressure. This construction feature produces a continuous bond of media to board around the periphery of the frame, eliminating weak corners and air bypass. The use of a high tensile strength polyethylene binder increases the integrity of the seal, allowing the filter to withstand varying temperatures and humidity levels.

When compared to traditional designs, the filter's notched frame corners allow units to interlock, providing up to 33% savings on warehouse space and freight costs.

Media – Purolator **F312** filters are manufactured with superior grade fiberglass media to guarantee full depth loading and high dust holding capacity. A computer controlled manufacturing process assures a uniform gradient density pattern in the media.

To enhance filtration capability and prevent migration of finer particles, the filter media has a skin backing and is evenly coated with a gelled adhesive.

Application – Purolator's **F312** filters perform best in conditions where large quantities of lint and dust are present. Their rugged construction makes them industry leaders in the high velocity system, prefilter market.



Pinch Frame Design

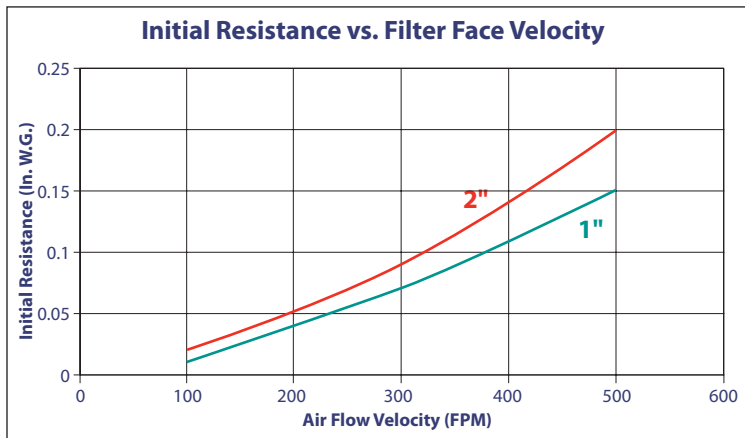
Notched Frame Design

- Performance is enhanced by a skin backing on the air leaving side of the media
- Space saving notched frame
- Reduce warehouse space and shipping costs with innovative Monobond pinch frame notched design
- Improved aerodynamics reduce restriction to air flow
- Safe, easy, fast installation
- Larger effective filtering surface area
- Wide selection of standard sizes
- Classified Class 2 by Underwriters Laboratories, Inc.

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Industrial Strength, 1" & 2" Disposable Panel Filters, Fiberglass Media

| Category | F312 1" | F312 2" |
|---|---------|---------|
| Air Flow Velocity (FPM) | 300 | 300 |
| Initial Resistance (In. W.G.) | .07" | .09" |
| Recommended Final Resistance (In. W.G.) | .50" | 1.0" |
| Average Arrestance (%) | 72% | 75% |



*Resistance climbs more rapidly on 1" thus reducing dust holding capacity and filter life. Testing conducted in accordance with the ASHRAE 52.1-1992 Test Standard. Classified Class 2 by Underwriters Laboratories, Inc.

| Standard 1" and 2" Sizes | | | | | | |
|--------------------------|-------|----------------------|----------------------|-------|--------|-------|
| 1 Inch | | | | | 2 Inch | |
| 8x16 | 12x18 | 14x25 | 16x25 | 20x25 | 10x20 | 18x24 |
| 8x30 | 12x20 | 14x30 | 16x30 | 20x30 | 12x24 | 20x20 |
| 10x10 | 12x24 | 15x20 | 18x18 | 22x22 | 14x20 | 20x24 |
| 10x16 | 12x25 | 15x25 | 18x20 | 24x24 | 14x25 | 20x25 |
| 10x20 | 12x30 | 15x30 | 18x24 | 24x30 | 15x20 | 24x24 |
| 10x24 | 14x14 | 15x30 ^{5/8} | 18x25 | 25x25 | 16x16 | 25x25 |
| 10x25 | 14x16 | 16x16 | 18x30 | | 16x20 | |
| 10x30 | 14x18 | 16x18 | 20x20 | | 16x24 | |
| 12x12 | 14x20 | 16x20 | 20x22 ^{1/4} | | 16x25 | |
| 12x16 | 14x24 | 16x24 | 20x24 | | | |

P-F312-309



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